

# PHILIPP

*fireproof  
products*

**Kalamein**

smoke screens • doors • frames  
trim and moldings

**Underwriters'**

labeled doors and bucks

**hollow metal doors**

**tin clad doors**

and hardware

CATALOG  
1959

**The Philipp Manufacturing Company**  
Easthampton, Mass. • established 1922



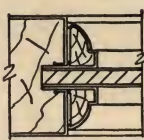
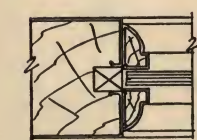
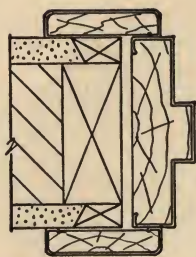
illustrated on this page are typical door designs, smoke screens, also construction details

## service estimates and drawings

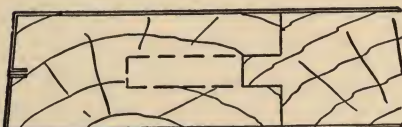
Estimates will be furnished from the architects plans and specifications. Suggestions and shop drawings will be furnished whenever desired. We solicit your inquiries.



TYPICAL KALAMEIN JAMBS



GLAZED DOOR PANELED DOOR  
STANDARD KALAMEIN CONSTRUCTION



FLUSH KALAMEIN DOOR



EXTRUDED BRONZE AND  
ALUMINUM DOORS

## specifications

### non labeled type kalamein doors

Wood cores shall be No. 1 sound kiln dried white pine, free from knots, shakes and other defects, machined all over to accurate dimensions.

Stiles and rails shall be mortised and tenoned and doweled and glued with waterproof glue. Stiles shall extend unbroken full height of doors.

All stiles shall be drawn through dies to insure a tight contact of metal to the wood cores.

Metal covering for the stiles, rails and panels shall be not less than 26 gauge patent leveled galvanized or long terne sheets, 16 or 20 oz. copper, 20 gauge bronze or aluminum.

Panels shall be  $\frac{1}{4}$ " composition board with metal glued to surfaces with waterproof glue under pressure.

Flush type kalamein doors shall have  $\frac{1}{16}$ " asbestos paper glued to wood cores and metal covering under pressure.

Special care shall be taken in assembling to avoid bench marks.

All joints between rails and stiles shall be filled with a good grade solder and scraped smooth.

All materials shall have a shop coat of special "Philipp" rust resisting metallic primer.

### paneled type Underwriters' labeled kalamein doors

Wood cores shall be No. 1 sound kiln dried white pine, free from knots, shakes and other defects, machined all over to accurate dimensions.

Stiles and rails shall be mortised and tenoned and doweled and glued with waterproof glue. Stiles shall extend unbroken full height of doors.

Metal covering for stiles, rails and panels shall be not less than No. 26 gauge patent leveled galvanized or long terne sheets. All joints between rails and stiles shall be interlocked and filled with good grade solder and scraped smooth.

Panels shall be  $\frac{1}{4}$ " asbestos board with metal glued to surfaces with waterproof glue under pressure.

Upturned flanges on inside of stiles and rails shall lap panels and be secured to same with  $\frac{3}{16}$ " stove bolts not exceeding 10" on centers.

All material shall have shop coat of special "Philipp" rust resisting metallic primer.

Doors and frames will be mortised and reinforced for hardware when specified.

Class B—For openings in vertical shaft, solid panel or vision light with 100 sq. ins. maximum glass area permitted.

Class C—For openings in corridor or room partitions, 1296 sq. ins. glass maximum per light exposed area permitted.



Class D & E—For openings in exterior walls, 720 sq. ins. glass maximum per light exposed area permitted.

Maximum size permitted by Underwriters' in all cases is 4-0 wide x 8-0 high for single door, and 8-0 wide x 8-0 high for pair of doors.

(Classes B, C, D and E openings) are tested according to the standard specifications for fire tests of door assemblies (adopted 1942), furnish resistance to spread of severe fire (reaching 1790° F.) through such openings for at least 1½ hour, moderate resistance to transmission of heat, and will resist fire streams well.

### flush type Underwriters' labeled kalamein doors specifications

**CORES:** Shall be 2-ply T & G clear wood boards clinch-nailed and covered with ⅛" asbestos both sides glued on. Edges of stiles shall be reinforced full height with #24 gauge channels.

**COVERING:** Shall be #24 ga. galvanized metal glued on under pressure. Lock joints at edges of stiles shall be flushed with solder and ground smooth. Face sheets shall be provided with vents soldered and ground smooth.

**GLASS LIGHTS:** Mouldings shall be formed of 14 ga. Z frames welded into a complete removable unit and attached to steel reinforcing under metal covering with machine screws.

**HARDWARE REINFORCING:** Shall be provided for all mortise hardware and fitted for same at the factory.

**PAINTING:** Doors shall be primed at the factory with coat of "Philipp" rust resisting metal primer.

Specify Underwriters' labeled hollow metal door frames with labeled kalamein doors. See page 4.

### hollow metal doors

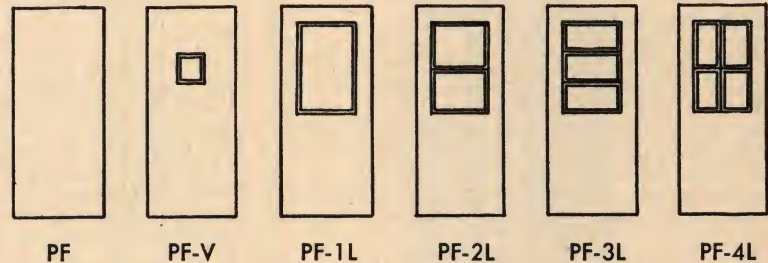
#### specifications

Doors are constructed of No. 18 gauge cold rolled sheets and assembled with channel stiffeners not more than 6 in. apart, electrically welded 6 in. on centers.

Cellufoam strips are placed between channel stiffeners to deaden metallic sound.

Cutouts and reinforcements are provided for all types of hardware.

Doors are thoroughly cleaned, bonderized, and filled to insure a smooth finish and given one sprayed prime coat of best rust-inhibiting metal primer.

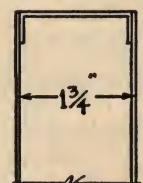
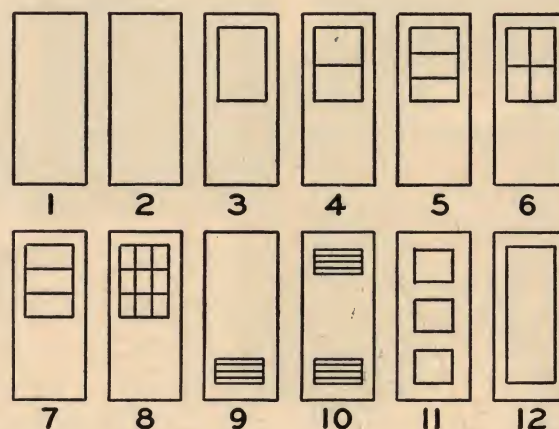


Maximum sizes permitted: singles—3'-8" x 7'-6"; pairs—7'-4" x 7'-6".

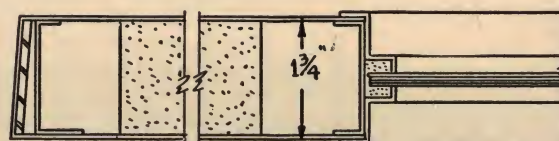


#### DETAIL OF FLUSH TYPE LABELED KALAMEIN DOORS

Note the special reinforcing, channel and asbestos both sides under the galvanized metal.



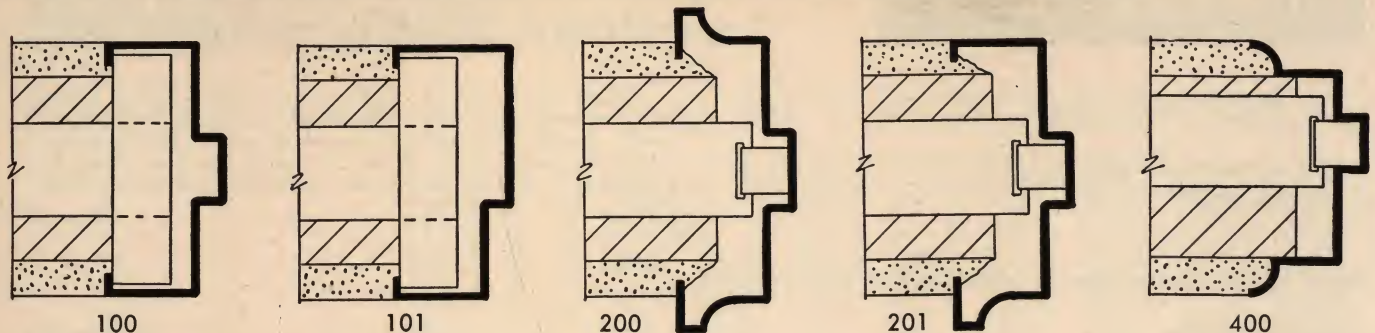
VERTICAL  
SECTION



SECTION THRU. DOOR AND GLASS MOULDINGS.



## PHILIPP Underwriters' labeled and non labeled metal door frames



### suggested specifications:

Hollow metal door frames shall be constructed of #16 gauge or #14 gauge steel with integral moulded or flat trim.

Head and jamb sections shall be accurately mitred, continuously electric welded on backs and ground smooth to produce a completely rigid assembly.

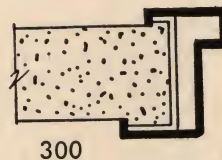
Accurate cutouts for all mortise hardware and steel reinforcements shall be provided. Furnish metal dust

covers over all hardware cutouts to prevent contact with mortar and plaster.

For each jamb provide at least three corrugated adjustable anchors for building into masonry walls, or anchor clips for fastening to wood studs.

Bottom of frames shall be provided with floor clips and angle steel spreaders.

After fabrication, complete frame to be thoroughly cleaned and given shop coat of air dried primer.



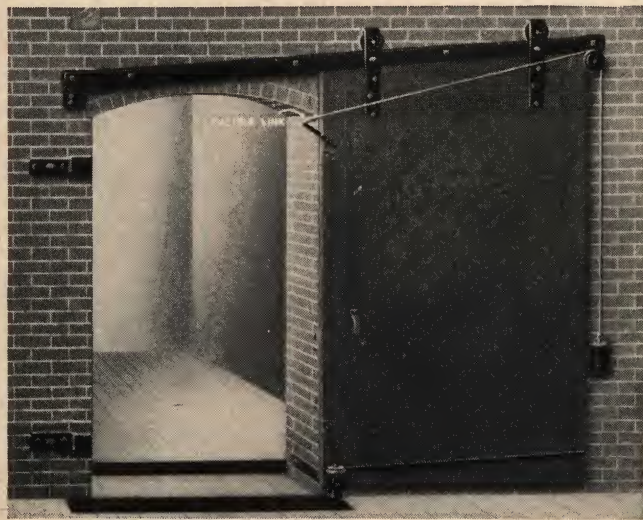
### limitations of Underwriters' labeled hollow metal door frames

Labeled frames of #16 gauge steel are limited to 3-6 x 7-6 opening for single door and 5-0 x 7-6 opening for double doors.

Labeled frames of #14 gauge steel are limited to 4-0 x 10-0 opening for single door and 8-0 x 10-0 for double doors.

Minimum width of jambs is 4".

## PHILIPP tin clad doors and hardware



### National Style "A"—the Underwriters' favorite incline slide description

Style A—Has one fusible link which projects into opening where it is exposed to fire on either side of wall. When fusible link melts, weight drops to floor and closes door.

Style B—Doors operate independently. Both fusible links must melt before entire opening is closed.

Style C—Used when headroom is not sufficient to permit incline-slide type. When fire melts fusible link, counterweight at right drops to floor and the closing weight at left pulls door closed.

Styles N and NN—Illustrations shown are not labeled fixtures. On labeled sets for masonry openings the underwriters require the use of pintles F-101, F-102, and F-103. With angle or channel frames, pintle F-108L is used.

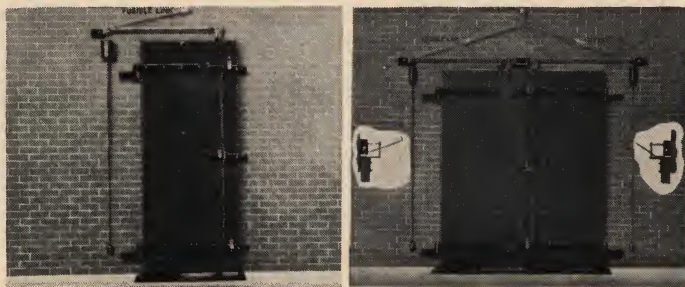
3-ply doors equivalent to 3 hour test doors.

2-ply doors equivalent to 1½ hour test doors.



Style "C"—level slide  
Style "N"—single swing

Style "B"—double incline slide  
Style "NN"—double swing



type of door	area sq. ft.	max. size opening ht. w.	type of label
3-ply single slide 3-ply single swing 3-ply swing in pairs	120	12' 12' 12' 6' 12' 10'	opening in fire wall class A
2-ply single slide 2-ply single swing 2-ply swing in pairs	80	10' 10' 10' 6' 10' 10'	opening in vertical shaft corridor or room partition, or exterior wall classes B, C, D, E
2-ply single swing 2-ply swing in pairs		10' 4' 10' 6'	opening to exterior fire escape. Classes D and E
2-ply single swing 2-ply swing in pairs	80	10' 6' 10' 10'	shutter for opening in exterior wall classes D and E

All doors and hardware approved by National Board of Fire Underwriters.

# PHILIPP MANUFACTURING COMPANY

Telephone 755

Easthampton, Mass.

Agents in all principal cities



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